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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/932,866	08/17/2001	Gerard Chauvel	TI-31347	6569	
23494 75	23494 7590 05/23/2005			EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			KIM, HONG	KIM, HONG CHONG	
	P O BOX 655474, M/S 3999 DALLAS, TX 75265		ART UNIT	PAPER NUMBER	
			2186		
			DATE MAILED: 05/23/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/932,866	CHAUVEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hong C. Kim	2186			
The MAILING DATE of this communication a Period for Reply	appears on the cover she	et with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, reply within the statutory minimum od will expire SIX (6 tute, cause the application to bect	nay a reply be timely filed of thirty (30) days will be considered timely. b) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 30	March 2005.				
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<i>,</i> —	,				
Disposition of Claims					
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) 8-11 is/are allowed. 6) ☐ Claim(s) 1-7 and 12-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration				
Application Papers					
9)☐ The specification is objected to by the Exam	iner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corr	·				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Burn * See the attached detailed Office action for a least	ents have been received ents have been received riority documents have eau (PCT Rule 17.2(a))	I. I in Application No been received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		view Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	08) 5) 🔲 Notid	er No(s)/Mail Date ce of Informal Patent Application (PTO-152) er:			
S. Patent and Trademark Office					

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Detailed Action

1. Claims 1-16 are presented for examination. This office action is in response to the amendment filed on 03/30/2005.

- 2. Applicants are reminded of the duty to disclose information under 37 CFR 1.56.
- 3. Applicants are requested to include the status of the related U.S. applications (i.e. 09/932,556) or patents (i.e. 6,684,280) in the CROSS-REFERENCE TO RELATED APPLICATIONS section and in any other corresponding area in the specification accordingly (e.g., U.S. Patent Application Serial No. ##/###,### filled Sept. 07, 1990, now abandoned; ..., now U.S. Patent #,###,### issued Jan. 01, 1994; or This application is a continuation of Serial Number ##/###, filed on December 01, 1990, now abandoned; ...etc.).

DOUBLE-PATENTING

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*,

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418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-7 and 12-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-19 of U.S. Patent No. 6,684,280 in view of Lim US Patent No. 6,430,640.

As to claim1, <u>USP</u> 6,684,280 claims a method for prioritizing access to a shared resource in a digital having a plurality of devices vying for access to the shared resource, comprising the steps of: initiating an access request by each of the plurality of devices; providing priority value along with each access request from each device; and arbitrating for access to the shared device by using the higher of priority value from each device (claim 17). However, USP 6,684,280 fails to disclose the step of providing two priority values.

Lim discloses a method for prioritizing access to a shared resource in a digital having a plurality of devices vying for access to the shared resource (col. 14 lines 55+) comprising the steps of: initiating an access request by each of the plurality of devices

(col. 14 lines 8-12) and providing two priority values (col. 14 line 11 and col. 15 lines 46 –56, processor ID) for the purpose of providing a fairness to each requested device, efficiency to the system busy 100 percent of the time, response and turnaround times to minimum and maximum throughput.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the steps of providing two priority values into the USP 6,684,280 for the advantages stated above.

As to claim 7, the claim 7 encompasses the same scope of the invention as that of the claim 1. Therefore, the claim 7 is rejected for the same reason as the claim 1.

As to claims 2-6 and 12-16, claims are rejected because they incorporate the defect of the parent claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

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directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Lim US Patent No. 6,430,640.

As to claim 1, Lim discloses a method (col. 13 lines 33-35) for prioritizing access to a shared resource in a digital having a plurality of devices vying for access to the shared resource (Fig. 14 ref. 408) comprising the steps of: initiating an access request by each of the plurality of devices (Fig. 13 Ref. 400); providing two priority values (col. 14 lines 9-12 and col. 15 lines 46 –56, processor ID) along with each access request (col. 6 lines 25-36) from each device; and arbitrating for access to the shared device by using the higher of priority value from each device (Fig. 1 Ref. 11 and col. 2 line 64 thru col. 3 lines 11).

As to claim 7, Lim discloses a digital system (Fig. 14) comprising: a shared resource (Fig. 14 Ref. 408); a plurality of devices (Fig. 13 Ref. 400) connected to access the shared resource, wherein each device has a request output a(col. 6 lines 25-36) and circuitry for providing two separate variable priority values (col. 14 lines 9-12 and col. 15 lines 46 –56, processor ID); arbitration circuitry (Fig. 14 Ref. 404).

Claim Rejections - 35 USC '103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

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obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lim US Patent No. 6,430,640 in view of Holt et al. (Holt) US Patent No. 5,263,163.

As to claim 14, Lim discloses the invention as claimed above. Lim further discloses the step of providing an access priority value (col. 15 lines 35-55) with each request that is responsive to a task currently being executed by the device, however, Lim does not specifically discloses providing an address space priority value with each request that is responsive to an address specified by each access request.

Holt discloses providing an address space priority value with each request that is responsive to an address specified by each access request (col. 21 lines 10-18) for the purpose of providing a fairness to each requested device, efficiency to the system busy 100 percent of the time, response and turnaround times to minimum and maximum throughput.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate an address space priority value with each request that is responsive to an address specified by each access as shown in Holt into the invention of Lim for the advantages stated above.

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Allowable Subject Matter

8. Claims 2-6, 12-13, and 15-16, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and overcome double

patenting rejections.

9. Claims 8-11 are allowed.

Response to Arguments

10. Applicant's arguments with respect to claims 1-16 have been considered but are most in view of the new ground(s) of rejection.

11. Applicant's arguments filed on 3/30/05 have been fully considered but they are not persuasive.

Applicant's argument on pages 7-10 that the reference does not disclose two priority values is not considered persuasive.

Lim discloses two priority values (col. 14 lines 9-12 and col. 15 lines 46 –56, processor ID).

Therefore broadly written claims are disclosed by the references cited.

Conclusion

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1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- 2. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 USC 133, MPEP 710.02, 710.02(b)).
- 3. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. ' 1.111(c).
- 4. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong C Kim whose telephone number is 703-272-4181. The examiner can normally be reached on M-F 9:00 to 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Matt M Kim can be reached on (703) 272-4182. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should

be directed to the Group receptionist whose telephone number is (703) 305-3900.

6. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

7. Any response to this action should be mailed to:

Commissioner of Patents

P.O. Box 1450

Alexandria, VA 22313-1450

or faxed to TC-2100:

(703) 872-9306

Hand-delivered responses should be brought to the Customer Service

Window (Randolph Building, 401 Dulany Street, Alexandria, VA 22314).

HK

Primary Patent Examiner

May 17, 2005